

What is claimed is:

1. An electric animal deterrent for use with a power source comprising:
 - a high voltage pulse generator supplied by the power source;
 - a timing mechanism for controlling the output pulse rate of said high voltage pulse generator;
 - a ground terminal connected to the output of said high voltage pulse generator for connection to a ground rod electrically connected to the underlying ground system;
 - and a high voltage output terminal also connected to the output of said high voltage pulse generator for connection to a separate un-insulated electrical conductor placed directly on the ground for the purpose of deterring animals.
2. The electric animal deterrent of claim 1 where the output impedance of the high voltage pulse generator is lower than the impedance of the electrical conductor laying on the ground connected to the high voltage output terminal with reference to the ground terminal and the underlying ground system in which the ground terminal is electrically connected.
3. The electric animal deterrent of claim 1 where the output impedance of the high voltage pulse generator is substantially lower than the impedance of an animal making contact with the electrical conductor connected to the high voltage output terminal and the underlying ground system in which the ground terminal is electrically connected.
4. The electric animal deterrent of claim 1 where the energy delivered to an animal making contact with both the electrical conductor connected to the high voltage output terminal and the underlying ground system is significantly less than the energy delivered to an impedance equal to the output impedance of the high voltage pulse generator.

5. The electric animal deterrent of claim 1 where the conductor placed on the ground and connected to the high voltage output terminal is a bare wire.
6. The electric animal deterrent of claim 1 where the conductor placed on the ground and connected to the high voltage output terminal is a bare wire covered by an electrically conductive thermoplastic material of higher resistivity than the bare wire.
7. The electric animal deterrent of claim 1 where the conductor placed on the ground and connected to the high voltage output terminal is a conductive shield on the outside of a cable.
8. An electric animal deterrent for use with a power source comprising:
 - a high voltage pulse generator supplied by the power source;
 - a timing mechanism for controlling the output pulse rate of said high voltage pulse generator;
 - and two high voltage output terminals of opposite polarity connected to the output of said high voltage pulse generator for connection to separate un-insulated electrical conductors placed directly on the ground for the purpose of deterring animals.
9. The electric animal deterrent of claim 8 where the output impedance of the high voltage pulse generator is lower than the impedance of the electrical conductors laying on the ground connected to the high voltage output terminals.
10. The electric animal deterrent of claim 8 where the output impedance of the high voltage pulse generator is substantially lower than the impedance of an animal making contact with either electrical conductor connected to the high voltage output terminals and the underlying ground system.

11. The electric animal deterrent of claim 8 where the energy delivered to an animal making contact with both the electrical conductor connected to the high voltage output terminals is significantly less than the energy delivered to an impedance equal to the output impedance of the high voltage pulse generator.

12. The electric animal deterrent of claim 8 where either of the conductors placed on the ground and connected to the high voltage output terminals is a bare wire.

13. The electric animal deterrent of claim 8 where either of the conductor placed on the ground and connected to the high voltage output terminals is a bare wire covered by an electrically conductive thermoplastic material of higher resistivity than the bare wire.

14. The electric animal deterrent of claim 8 where the conductors placed on the ground and connected to the high voltage output terminals are a conductive shield on the outside of a cable.

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